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U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

HEALTH SERVICES AND MENTAL HEALTH ADMINISTRATION

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EPIDEMIOLOGIC NOTES AND REPORTS VIBRIO PARAHAEMOLYTICUS GASTROENTERITIS Maryland

On July 5, 1972, 20 out of 26 persons who had attended a July 4th picnic in Anne Arundel County, Maryland, experienced severe abdominal cramping, diarrhea, nausea, and some vomiting. Fifteen people sought medical attention, and two were hospitalized. There were no deaths. The median incubation period was 15 hours (range 8-22 hours), and the median duration of the illness was 3 days (range 2-7 days). Their illness was diagnosed as acute gastroenteritis. Stool specimens from three patients yielded Vibrio parahaemolyticus on thiosulfate citrate bile salts (TCBS) medium. Cultures for salmonella, shigella, or enteropathogenic Escherichia coli were negative.

Epidemiologic investigation revealed that the primary

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food served at the picnic was steamed crabs. Two bushels of live crabs were bought from a wholesale market on July 3, 1972. The crabs were steamed at the host's home between 9:00 and 12:00 that evening, stored overnight in the basement in their original baskets without refrigeration, and eaten the following afternoon.

Portions of the remaining crabs, which had been refrigerated since the picnic, were tested and were negative for V. parahaemolyticus. A basket in which the crabs were pur-

TABLE I. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES (Cumulative totals include revised and delayed reports through previous weeks)

| | 29th WEI | EK ENDING | MEDIAN | CUMUL | ATIVE, FIRST 2 | 9 WEEKS |
|---|------------------|------------------|---------------------|---------|----------------|---------------------|
| DISEASE | July 22, 1972 | July 24, 1971 | MEDIAN 1967-1971 | 1972 | 1971 | MEDIAN 1967-1971 |
| Aseptic meningitis | 98 | 173 | 120 | 1,209 | 1,689 | 1,140 |
| Brucellosis | 6 | 5 | 5 | 90 | 89 | 119 |
| Chickenpox | 1,089 | | | 110,706 | | |
| Diphtheria | 1 | 2 | 1 | 57 | 92 | 92 |
| Arthropod-borne and unspecified | 25 | 59 | 33 | 472 | 713 | 640 |
| Encephalitis, post-infectious | 7 | 12 | 12 | 171 | 234 | 274 |
| Hepatitis, serum (Hepatitis B) | 204 | 175 | 100 | 5,165 | 4,734 | 2,867 |
| Hepatitis, infectious (Hepatitis A) | 1,049 | 991 | 823 | 30,983 | 33,851 | 25,849 |
| Malaria | 21 | 37 | 37 | 624 | 1,936 | 1,497 |
| Measles (rubeola) | 255 | 561 | 356 | 25,769 | 66,716 | 37,840 |
| Meningococcal infections, total | 19 | 27 | 32 | 877 | 1,588 | 1,643 |
| Civilian | 17 | 27 | 30 | 842 | 1,406 | 1,474 |
| Military | 2 | _ | 3 | 35 | 182 | 170 |
| Mumps | 665 | 1,044 | | 53,822 | 95,258 | |
| Rubella (German measles) | 183 | 296 | 393 | 19,632 | 36,649 | 41,357 |
| Tetanus | 3 | i | 3 | 62 | 55 | 74 |
| Tuberculosis, new active | 622 | | | 18,394 | | 1 |
| Fularemia | 5 | 4 | 5 | 74 | 82 | 82 |
| Typhoid fever | 10 | 3 | 7 | 172 | 163 | 163 |
| Typhus, tick-borne (Rky. Mt. spotted fever) | 31 | 18 | 18 | 244 | 190 | 175 |
| Gonorrhea | 16,275 | 14,202 | | 390,463 | 347,033 | |
| Syphilis, primary and secondary | 522 | 465 | | 13,328 | 13,009 | |
| Rabies in animals | 79 | 72 | 71 | 2,469 | 2,480 | 2,095 |

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

| | Cum. | | Cum. |
|--------------------------------------|------|--------------------------------------|------|
| Anthrax: | - | Poliomyelitis, total: | 8 |
| Botulism: | | Paralytic: | 8 |
| Congenital rubella syndrome: Ky. – 1 | 22 | Psittacosis: | 21 |
| Leprosy: Calif. – 1, Mich. – 1 | 67 | Rabies in man: | 1 |
| Leptospirosis: Calif. – 2 | 15 | Trichinosis: Ill. – 1, N.Y. Ups. – 1 | 46 |
| Plague: | 1 | Typhus, murine: | 10 |

†Numbers for 1971 are estimated from quarterly reports to the Venereal Disease Branch, CDC

VIBRIO PARAHAEMOLYTICUS - (Continued)

chased and stored, however, yielded four *V. parahaemolyticus* organisms per square inch of basket tested.

(Reported by J. Howard Beard, M.D., Deputy State Health Officer, Anne Arundel County Health Department; Ronald Nelson, Sanitarian, Division of Food Control, Environmental Health Administration, Arnold Salinger, Head, Environmental Microbiology Field Services and Certification Section, John Molenda, Ph.D., Head, Special Microbiology Studies, and John D. Stafford, M.D., Chief, Division of Communicable Diseases, Preventive Medicine Administration, Maryland State Department of Health.)

On July 9, 1972, a 32-year-old woman in Baltimore, Maryland, awakened with abdominal pain and was later admitted to the accident room of a local hospital with weakness, vomiting, diarrhea, and tenesmus. Her temperature was 101°F., she was moderately dehydrated, and she had diffuse abdominal tenderness. Three stools passed in the accident room were bloody.

Laboratory studies revealed a white blood cell count of 27,600 with a marked shift to the left. There were numerous polymorphonuclear leukocytes in the stool. Sigmoidoscopic examination revealed multiple shallow ulcerations in the sigmoid colon. Three days later, stool cultures grew *Vibrio parahaemolyticus* on thiosulfate citrate bile salts medium. She was treated with intravenous fluids only and made an uneventful recovery.

On July 8, at 5:00 p.m., the patient had eaten five crabs steamed by a neighbor. One of the crabs "tasted bad". At 10:00, she ate three more crabs and gave "tastes" to her children. Her husband ate none of these crabs. Neither the husband nor the children became ill.

(Reported by Mary Charleson, M.D., Assistant Resident in Medicine, Johns Hopkins Hospital, Baltimore, Maryland; John Molenda, Ph.D., Head, Special Microbiology Studies, and John

Editorial Note

Vibrio parahaemolyticus is one of the leading causes of foodborne diseases in Japan and only recently is beginning to be recognized as an important and ubiquitous enteropathogen in other countries. Contamination of the crabs in this outbreak probably occurred when they were stored overnight in the original baskets at room temperature, thereby permitting replication of the vibrios. The use of TCBS medium and increased awareness of V. parahaemolyticus as a cause of foodborne outbreaks have been responsible for the increasing number of reports of this type of food poisoning in two states in this country. Since 1969, Maryland has reported five outbreaks; Washington has reported four.

D. Stafford, M.D., Chief, Division of Communicable Diseases, Preventive Medicine Administration, Maryland State Department of Health.)

Editorial Note

This isolated case is unrelated to the outbreak reported above. Clinical and laboratory evidence of involvement of the distal bowel, manifested by fever, tenesmus, blood in the stool, ulceration of the sigmoid, and marked leukocytosis suggest that the pathogenesis of *V. parahaemolyticus* infection may be primarily due to mucosal invasion analogous to shigellosis. Because of these symptoms, this illness is often misdiagnosed as dysentery due to shigella infection (1). If it is assumed that the infection was acquired from the crabs eaten at 5:00 p.m. the day before her illness, the incubation period would be 14 hours. This incubation period and the clinical manifestations are consistent with previous reports in the literature (2).

Reference

- 1. Also K, Matsuno M: The outbreaks of enteritis-type food poisoning due to fish in Japan and its causative bacteria. Jap J Microbiol 5:337, 1961
- 2. Thatcher FS, Clark DS (eds): Microorganisms in Foods: Their Significance and Methods of Enumeration. Toronto, Univ of Toronto Press, 1968, pp 14-15

INTERNATIONAL NOTES FOLLOW-UP ON TYPHOID FEVER — Mexico

In mid-January 1972, an outbreak of typhoid fever and other salmonelloses was reported in the State of Hidalgo and Mexico City, Mexico (MMWR, Vol. 21, No. 21). A total of 778 cases were reported in Hidalgo, of which 739 cases were confirmed as typhoid fever (Table 1). Mexico City reported a total of 1,515 cases; Salmonella typhi was isolated in 176 cases and in 1,000 cases the Widal reaction was positive to the H and O antigens. Subsequently, the Federal District reported a total of 853 additional cases in which S. typhi was isolated and another 150 cases in which the reaction to agglutination tests was positive. An increased number of reported cases of typhoid fever was also noted in the States of Puebla and Tlaxcala. The peak of the outbreak was reached in March Tlaxcala.

The largest number of cases occurred in the age-group 5-14 years in Hidalgo and Tlaxcala, while in Mexico City, those 15-24 years were mainly involved. Both sexes were approximately equally affected. The clinical picture was typi-

Table 1
Distribution of Confirmed Cases of Typhoid Fever in Four States of Mexico, by Month – 1972

| G | | Number of Cases by Month | | | | | | | | | |
|------------------|---------|--------------------------|-------|-------|------|-------|--|--|--|--|--|
| States | January | February | March | April | May* | Total | | | | | |
| Federal District | 8 | 13 | 238 | 415 | 179 | 853 | | | | | |
| Hidalgo | 2 | 44 | 334 | 289 | 80 | 739 | | | | | |
| Puebla | 29 | 11 | 12 | 200 | 42 | 294 | | | | | |
| Tlaxcala | - 1 | 2 | 7 | 34 | 17 | 61 | | | | | |

*Through May 20, 1972

cal of the disease, with a high percent of cases having intestinal perforations.

In Hidalgo, the cities of Pachuca (pop. 96,441) and Tilancingo (pop. 38,045) were primarily affected, reporting 720 and 624 cases, respectively. S. typhi was isolated in a total of 44 patients; of these, 24 occurred in Pachuca and 20 in Tulancingo. The Widal reaction was positive in 261 cases in

Pachuca and in 220 cases in Tulancingo. In other areas of the state, 75 cases were observed with a clinical picture comparable to typhoid fever, including a positive Widal reaction. Of the 44 isolations of *S. typhi*, 20 strains were resistant to chloramphenicol. The majority of resistant strains occurred in the hospitalized cases. A total of 129 deaths were attributed to this outbreak; of these, 29 occurred in Pachuca.

In Mexico City, the strains of *S. typhi* from 24 patients were found to be resistant to chloramphenicol. As in Hidalgo, the resistant strains have come mostly from hospitalized patients. The majority of the patients were treated in clinics and health centers and responded to treatment by chloramphenicol, although in both states it appears that many of the patients infected with resistant strains responded poorly to therapy with chloramphenicol, necessitating the use of other antibiotics, principally ampicillin. Thirty-nine deaths could be confirmed as due to typhoid fever, although 54 deaths were attributed to the disease. Strains resistant to chloramphenicol were not found in Tlaxcala, and the outbreak was

confined to the City of Apizaco.

A predominance of cases was seen in groups of people living in low socio-economic conditions with a low standard of environmental hygiene. Fecal contamination was detected in the water systems of both Pachuca and Tulancingo as well as in foods (mainly green vegetables and ice cream). Repeated tests of the potable water system in Mexico City have demonstrated its purity. In the houses of some of the patients, however, fecal contamination was found in the water supply for domestic use.

Public health measures in both states include active reporting, diagnosis, and surveillance of cases and contacts, and control of potable water systems, food handlers, and sanitation, as well as health education programs. Physicians have been informed of the existence of strains resistant to chloramphenicol, and ampicillin or other drugs are used when necessary.

(Reported by the World Health Organization: Weekly Epidemiological Record, Vol. 47, No. 28, July 14, 1972.)

SUMMARY OF REPORTED CASES OF INFECTIOUS SYPHILIS

CASES OF PRIMARY AND SECONDARY SYPHILIS: By Reporting Areas June 1971 and June 1972 - Provisional Data

| Reporting Area | Jı | ine | | lative June | Reporting Area | Ju | ine | | ılative - June |
|--|------|------|-------|----------------|---|-----------|-----------|------------|-------------------|
| | 1972 | 1971 | 1972 | 1971 | | 1972 | 1971 - | 1972 | 1971 |
| NEW ENGLAND | 57 | 49 | 437 | 308 | EAST SOUTH CENTRAL | 129 | 105 | 687 | 569 |
| Maine | 1 | 2 | 14 | 6 | Kentucky | 36 | 25 | 131 | 162 |
| New Hampshire | 1 | 1 | 5 | 3 | Tennessee | 34 | 34 | 255 | 167 |
| Vermont | 1 | 1 | 11 | 2 | Alabama | 19 | 12 | 91 | 79 |
| Massachusetts | 29 | 23 | 243 | 155 | Mississippi | 40 | 34 | 210 | 161 |
| Rhode Island | 5 | 6 | 21 | 24 | 000000000000000000000000000000000000000 | | | | |
| Connecticut | 20 | 16 | 143 | 118 | WEST SOUTH CENTRAL | 248 12 | 291 29 | 1,537 | 1,930 |
| MIDDLE ATLANTIC | 557 | 454 | 2,905 | 2.883 | Arkansas | 90 | 56 | 113 446 | 140 |
| Upstate New York | 24 | 49 | 215 | 239 | Louisiana | 12 | 8 | | 332 |
| | 436 | 285 | 2,034 | 1,932 | Oklahoma | | 1 - | 52 | 44 |
| New York City | 9 9 | 13 | 84 | | Texas | 134 | 198 | 926 | 1,414 |
| Pa. (Excl. Phila.) | 21 | 15 | 156 | 75 96 | | | | | |
| Philadelphia | 67 | 92 | 416 | 541 | MOUNTAIN | 39 | 62 | 250 | 287 |
| New Jersey | 67 | 92 | 410 | 341 | Montana | 3 | _ | 4 | |
| | | 228 | 1 202 | | Idaho | | 2 | 3 | 1 |
| AST NORTH CENTRAL | 166 | | 1,283 | 1,312 | Wyoming | - | - | 8 | |
| Ohio | 21 | 41 | 165 | 250 | Colorado | 8 | 7 | 30 | 31 |
| Indiana | 13 | 25 | 99 | 163 | New Mexico | 5 | 19 | 57 | 68 |
| Downstate Illinois | 7 | 14 | 76 | 71 | Arizona | 15 | 19 | 104 | 107 |
| Chicago | 63 | 83 | 521 | 420 | Ulah | 2 | 4 | 13 | 13 |
| Michigan | 60 | 59 | 401 | 374 | Nevada | 6 | 11 | 31 | 6.5 |
| Wisconsin | 2 | 6 | 21 | 34 | | | | 1 | |
| West-room est-to-translate translate | | | | 1 | PACIFIC | 301 | 313 | 1,740 | 1,583 |
| VEST NORTH CENTRAL | 26 | 33 | 136 | 224 | Washington | 10 | 20 | 63 | 76 |
| Minnesota | 5 | 3 | 19 | 31 | Oregon | 2 | 2 | 23 | 7 |
| lowa | 6 | 4 | 22 | 8 | California | 286 | 290 | 1,631 | 1,475 |
| Missouri | 7 | 14 | 64 | 129 | Alaska | - | 1 | 9 | 19 |
| North Dakota | - | 3 | - | 5 | Hawaii | 3 | 2 | | 6 |
| South Dakota | - | 1 | 1 | 6 | | | | | |
| Nebraska | 5 | 2 | 11 | 15 | U.S. TOTAL | 2,086 | 1,990 | 12,095 | 11,855 |
| Kansas | 3 | 6 | 19 | 30 | | | | | |
| SOUTH ATLANTIC | 563 | 455 | 3,120 | 2,759 | TERRITORIES | 52 | 71 | 429 | 429 |
| Delaware | 3 | 2 | 32 | 19 | Puerto Rico | 47 | 69 | 384 | 417 |
| Maryland | 88 | 46 | 478 | 276 | Virgin Islands | 5 | . 2 | 45 | 12 |
| District of Columbia | 61 | 40 | 400 | 274 | 0.28 | | | 1 | 1 |
| Virginia | 47 | 36 | 217 | 191 | | | | 1 | <u> </u> |
| West Virginia | ** | 2 | 13 | 16 | | | | | |
| North Carolina | 55 | 33 | 277 | 229 | | | | | |

Note: Cumulative Totals include revised and delayed reports through previous months

EPIDEMIOLOGIC NOTES AND REPORTS CARBON MONOXIDE POISONING — California

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On April 26, 1972, a woman vacationing with her 62-year-old husband in their mountain cabin near Georgetown, California, experienced nausea and vomiting and then fainted. When she awoke, she was aware that her husband was trying

South Carolina Georgia

to help her, but she fainted again. When she regained consciousness a second time, she found her husband dead. The wife subsequently recovered without specific treatment and (Continued on page 252)

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDING JULY 22, 1972 AND JULY 24, 1971 (29th WEEK)

| termi William | ASEPTIC | PDIICEI | CHICKEN- | DIPHTHERIA | | F | NCEPHALITI | S | HEPATITIS | | |
|----------------------|-----------------|------------------|---------------|------------|--------------|---------------|-----------------------|----------------------|------------------------|-------------------|--------|
| AREA | MENIN- GITIS | BRUCEL- LOSIS | POX | | | | including c. cases | Post In- fectious | Serum (Hepatitis B) | Infect (Hepati | |
| The second | 1972 | 1972 | 1972 | 1972 | Cum. 1972 | 1972 | 1971 | 1972 | 1972 | 1972 | 197 |
| UNITED STATES | 98 | 6 | 1,089 | 1 | 57 | 25 | 59 | 7 | 204 | 1,049 | 99 |
| IEW ENGLAND | 2 | - | 202 | - | - | 3 | 3 | 2 | 18 | 85 | 6 |
| Maine .* | - | - | 3 | _ | - | _ | - | 2 | | 1 | |
| New Hampshire | - | - | 1 | _ | 2.2 | _ | _ | | 11 | 8 5 | |
| Vermont | 1 | _ | 102 | 2 | _ | 3 | 1 | _ | 1 | 46 | - 2 |
| Rhode Island | 1 | - | 42 | _ | 2 | _ | _ | - | 1 | 10 | |
| Connecticut | - | - | 54 | - | | - | 2 | - | 5 | 15 | - : |
| IDDLE ATLANTIC | 2 | - | 80 | - | 2 | | 1 | - | 62 | 94 | 1 |
| Upstate New York | 1 | - | #0 | - | 1 | : | - | - | 22 | 30 | |
| New York City | 1 | - | 80 | - | 1 | | - | | 18 | 21 | |
| New Jersey * | - | | NN | - | | | 1 | - | 22 | 43 | |
| Pennsylvania | | | | 200 | - | *** | - | | | | |
| AST NORTH CENTRAL | 14 | 175 | 424 | 1 | 4 | 8 | 15 | | 27 | 170 | 1 |
| Ohio | 4 | | 33 | 7 | | 1 | 8 | - | 2 | 24 7 | |
| Illinois | 3 | _ | 7, | 1 | 3 | 2 | 2 | _ | 5 | 55 | |
| Michigan | 7 | _ | 65 | | í | 4 | 4 | | 19 | 80 | |
| Wisconsin | 2 | - | 324 | - | - | - | 1 | - | 1 | 4 | |
| EST NORTH CENTRAL | 3 | 1 | 14 | 20 | 9 | 1 | 3 | 1 | 14 | 80 | |
| Minnesota | 3 | 1 | 1 | _ | | 1 | _ | _ | _ | 7 | |
| lowa | - | | 9 | - | _ | 1 | - | - | 2 | 3 | |
| Missouri * | - | - | 3 | - | - | - | - | - | 8 | 55 | |
| North Dakota | _ | - | 1 | - | _ | - | _ | _ | - | - | |
| South Dakota | - | | | - | 6 | 11.0 | - | - | - | 3 | |
| Nebraska | _ | - | _ | - 2 | 3 | - | 1 2 | 1 | 4 | 12 | |
| OUTH ATLANTIC | 24 | 5 | 156 | | 9 | 3 | 14 | _ | 19 | 172 | 1. |
| Delaware | - | _ | 2 | 7 - | - | - | - | _ | - | 1/1 | · · |
| Maryland | 6 | - | 29 | _ | 1 | - | 1 | - | 4 | 15 | |
| District of Columbia | _ | - | 7 | - | - | - | - | - | 1 | 2 | |
| Virginia | 8 | 4 | 20 | - | | - | 2 | - | 3 | 17 | |
| West Virginia | - | - | 86 | = | - | - | 2 | - | .= : | 7 | |
| North Carolina | 5 | | NN | 70 | 7 | 2 | 1 | 577 | 3 | 55 | |
| South Carolina | = | 1 | 12 | - | 1 | 1 | - | 777 | 1 1 | 10 | |
| Georgia | 5 | | - | - | 2 5 | - | 8 | - | 7 | 20 45 | |
| AST SOUTH CENTRAL | 3 | | | | 2 | | | | 5 | | |
| Kentucky | - | - 2 | 39 | 5/ | 2 | | 1 | | 1 | 45 20 | |
| Tennessee | 1 | - | NN | _ | - | - | 1 | - | - | 19 | |
| Alabama | 2 | - | 5 | + | 2 | - | - | - | 3 | 4 | |
| Mississippi | - | - | - | - | - | - | | - | Lead 1 III | 2 | |
| EST SOUTH CENTRAL | 24 | - | 32 | - | 23 | 4 | 18 | 1 | 9 | 123 | 1 |
| Arkansas | 1 | - | _ | 200 | - | _ | - | 2 | 2 | 6 | |
| Louisiana | 1 | - | NN | - | 4 | 2 | - | - | 2 | 15 | |
| Oklahoma | MI 1 7 | - | 2 | - | | 1 | - | - | - | 14 | |
| Texas | 21 | - | 30 | - | 19 | 1 | 18 | 1 | 7 | 88 | |
| OUNTAIN | 1 | - | 81 | | 5 | - | - | - | 7 | 46 | |
| Montana | - | - | 2 | - | - | Lee- | - | - | - | 2 | |
| Idaho | 1 | - | - | - | 2 | - | - | - | | 11 | |
| Wyoming | - | - | 1 7 | - | · - | - | - | - | 7 | - | |
| Colorado | | 3 | 31 18 | | 1 | 4 | | - | 5 | 10 9 | |
| Arizona | | | 24 | | 2 | | | 2 | | 10 | |
| Utah | - | - | 5 | | - | 1 = | - | - | 1 | 4 | |
| Nevada | - | 7 | 1 | - | - | - | - | | - | - | |
| CIFIC | 25 | | 56 | - | 3 | 6 | 4 | 3 | 43 | 234 | 2 |
| Washington | - | | 11 | - | 2 | 2 | _ | - | 2 | 25 | |
| Oregon | 22 | - | _ | | | 7 | - | - | 1 1 | 29 | ٠. |
| Alaska | 23 2 | _ | 5 0 9 7 1 1 2 | 0 0 E C. | r ro-mr | 0.56-0 | 3 | 3 | 40 | 173 | 1 |
| Hawaii | _ | - | 44 | ONTROX | 04 70 x | INTO TO 10 | days | - | - | 7 | |
| 200 | direction. | | the turn y | n water in | | | 1 750 | | Territo III | | 1,45,4 |
| uam | | | 5 | | 7/197 | Page III | | e est Trop | ME 7 | 12 | |
| irgin Islands | | | Port and | | | | | 12 01 Sec. 10. | L L + C 111 | ALCOHOLD TO THE | |

*Delayed reports: Chickenpox: Me. 7 Hepatitis B: Me. 1, N.J. delete 1 Hepatitis A: Me. 6, Mo. 41

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDING JULY 22, 1972 AND JULY 24, 1971 (29th WEEK) — Continued

| The state of the s | MAL | ARIA | ME | ASLES (Rub | eola) | MENINGO | COCCAL IN TOTAL | FECTIONS, | MU | MPS | RUI | BELLA |
|--|--------|----------|------|-------------|-----------------|---------|--------------------|-----------|----------|--------------|-------|-----------|
| AREA | 1972 | Cum. | 1972 | Cumi | Jative | 1972 | Cumi | dative | 1972 | Cum. | 1972 | Cum. |
| tanker Telephone | 19/2 | 1972 | 1972 | 1972 | 1971 | 19/2 | 1972 | 1971 | 1972 | 1972 | 197- | 1972 |
| UNITED STATES | 21 | 624 | 255 | 25,769 | 66,716 | 19 | 877 | 1,588 | 665 | 53,822 | 183 | 19,632 |
| EW ENGLAND | 1 | 16 | 37 | 2,985 | 3,349 | _ | 36 | 69 | 24 | 2,279 | 7 | 918 |
| maine | - | 1 | 1 | 238 | 1,445 | - | 3 | 8 | _ | 254 | 1000 | 65 |
| New Hampshire | - | 3 | 3 | 227 | 194 | - | 3 | 10 | 2 | 179 | _ | 32 |
| Vermont | - | - | - | 120 | 109 | - | - 17 | - | - | 111 | _ | 68 |
| Massachusetts Rhode Island | 1 | 6 | 17 | 630 519 | 232 237 | | 17 10 | 28 3 | 9 | 550 365 | 2 | 423 88 |
| Connecticut | - | 6 | 14 | 1,251 | 1,132 | _ | 3 | 20 | 9 | 820 | 4 | 242 |
| IDDLE ATLANTIC | F | 47 | 15 | 887 | 7,301 | 2 | 107 | 208 | 54 | 2,794 | 10 | 1,810 |
| Upstate New York | - | 9 | - | 123 | 614 | 2 | 27 | 59 | NN | NN | 2 | 227 |
| New York City | - | 7 | 10 | 227 | 3,639 | | 35 | 41 | 49 | 1,463 | 5 | 185 |
| New Jersey Pennsylvania | | 15 16 | 5 | 484 53 | 1,173 1,875 | 17 | 20 25 | 48 60 | 5 | 687 | 3 | 1,154 |
| | | | | | | | | | | | | |
| AST NORTH CENTRAL | 3 | 62 9 | 113 | 10,640 | 14,719 3,917 | 3 2 | 116 46 | 177 54 | 181 2 | 14,861 | 63 | 5,307 |
| Indiana | _ | 1 | 11 | 1,206 | 2,646 | _ | 11 | 13 | 10 | 944 | 15 | 622 |
| Illinois | 1 | 24 | 34 | 3,937 | 2,853 | | 25 | 51 | 14 | 2,644 | 6 | 994 |
| Michigan | 1 | 25 | 34 | 1,934 | 2,164 | 1 | 30 | 49 | 64 | 2,578 | 13 | 1,224 |
| Wisconsin | 1 | 3 | 33 | 3,337 | 3,139 | - | 4 | 10 | 91 | 6,595 | 27 | 2,092 |
| EST NORTH CENTRAL | 1 | 43 | 5 | 918 | 6,721 | 1 | 66 | 122 | 36 | 8,179 | 4 | 1,247 |
| Minnesota | 1 | 5 | 1 | 19 | 52 | 1 | 17 | 20 | 2 | 669 | 1 | 488 |
| lowa Missau | - | 3 | 2 | 646 | 2,230 | - | 2 | 9 | 12 | 5,657 | - 1 | 378 |
| Missouri North Dakota | _ | 12 | _ | 158 | 2,585 | - | 20 | 44 | 12 | 479 | 3 | 107 |
| South Dakota | _ | 1 4 | 2 | 51 5 | 228 211 | | 2 | 5 5 | 8 2 | 315 117 | - | 21 |
| Nebraska | Ī | 3 | | 18 | 62 | | 9 | 14 | _ | 244 | | 12 50 |
| Kansas | - | 15 | _ | 21 | 1,353 | _ | 16 | 25 | _ | 698 | _ | 191 |
| OUTH ATLANTIC | 11 | 96 | 10 | 2,038 | 7,174 | 5 | 199 | 281 | 71 | 4,979 | 16 | 1,480 |
| Delaware | 11 | - | | 48 | 34 | | 1 | 2 | 4 | 77 | _ | 7,400 |
| Maryland | 3 | 8 | _ | 15 | 522 | _ | 33 | 43 | 7 | 291 | 3 | 45 |
| District of Columbia | 3 | 5 | - | 2 | 15 | 1 | 9 | 10 | 1 | 19 | _ | 6 |
| Virginia | - | 4 | - T | 58 | 1,420 | 1 | 44 | 26 | 21 | 1,059 | 2 | 67 |
| West Virginia | _ 2 | 1 35 | 4 | 249 29 | 483 1,902 | - | 6 | 7 | 16 | 2,256 | 4 | 369 |
| South Carolina | _ | 10 | 3 | 214 | 890 | 1 | 25 19 | 48 20 | NN 1 | NN 163 | 1 5 8 | 27 50 |
| Georgia | 2 | 22 | | 153 | 201 | | 6 | 23 | 6 | 20 | 5-04 | 56 |
| Florida | 1 | 11 | 3 | 1,270 | 1,707 | 2 | 56 | 102 | 15 | 1,094 | 7 | 853 |
| AST SOUTH CENTRAL | _ | 157 | 10 | 1,014 | 8,065 | 2 | 74 | 135 | 53 | 2,838 | 18 | 1,452 |
| rentucky | _ | 138 | 7 | 514 | 3,859 | 1 | 23 | 37 | 9 | 441 | 6 | 815 |
| ennessee | 1.2 | | 3 | 191 | 997 | _ | 28 | 51 | 31 | 1,806 | 9 | 484 |
| Alabama | - | 15 | - | 129 | 1,799 | 1 | 15 | 28 | 13 | 482 | 3 | 42 |
| mississippi | - | 4 | - | 180 | 1,410 | | 8 | 19 | - | 109 | - | 111 |
| EST SOUTH CENTRAL | - | 67 | 19 | 1,382 | 12,201 | 3 | 110 | 139 | 54 | 4,501 | 15 | 1,396 |
| Arkansas Louisiana | - | 5 | - | 13 | 775 | | 9 | 5 | 2 | 159 | - | 29 |
| Oklahoma | - | 5 4 | _ | 82 | 1,664 | | 34 | 47 | 18.7 | 283 | 1 | 85 |
| Texas | _ | 53 | 19 | 1,278 | 745 9,017 | 3 | 6 61 | 7 80 | _ 51 | 155 3,904 | 14 | 1,249 |
| | 100 | | | 1 197 | | | | | | | | |
| OUNTAIN | 1 | 42 | 13 | 1,716 | 3,104 | 1 1 | 15 | 48 | 40 | 2,786 | 12 | 1,028 |
| Montana Idaho | - | 2 | 1 | 12 | 904 | - | 2 | 6 | 7 | 166 | - | 28 |
| Wyoming | 1/2 | 1 | _ | 20 51 | 264 84 | | 1 | 7 2 | 1 | 195 218 | - | 25 |
| Colorado | 1 2 | 27 | 4 | 510 | 803 | 1 1 | 3 | 7 | 5 | 725 | 3 | 514 |
| New Mexico | 11546 | 1 | 2 | 108 | 331 | 1 -51 | 1 1 | 3 | 5 | 550 | 3 | 85 |
| Anzona | 1 | 6 | 6 | 862 | 388 | - | 1 | 8 | 19 | 758 | 5 | 340 |
| Utah | D-20 | 2 | - | 153 | 323 | - | 2 | 12 | 3 | 129 | 1 | 25 |
| Nevada | 150 | | | | 7 | | 1 1 | 3 | - | 45 | - | · Marine |
| CIFIC | 4 | 94 | 33 | 4,189 | 4,082 | 2 | 154 | 409 | 152 | 10,605 | 38 | 4,994 |
| Washington | 1.71 | | 5 | 970 | 956 | | 11 | 23 | 17 | 3,542 | . 1.7 | 817 |
| Oregon . | 1 | 11 | 5 | 108 | 366 | 1 1 | 13 | 29 | 35 | 1,414 | 10 | 347 |
| California Alaska | 3 | 72 2 | 20 | 3,006 11 | 2,395 52 | 1 - | 122 | 351 | 88 | 5,317 94 | 28 | 3,764 |
| Hawaii | 133 | 9 | 3 | 94 | 313 | -t-t | 3 | 6 | 12 | 238 | | 47 |
| | 1 | 211 | | | | | | | | | | |
| am | 1 | 2 | 3 | 4 527 | 406 | - j- j- | 11 | | - | 2 | | 6 |
| Igin Islands | - | 3 | 101 | 1 32/ | 13 | | 4 2 | 4 | 17 1 | 679 129 | | 16 3 |
| | | | 1. | | | | - 4 | | DOM: THE | 129 | | 3 |

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDING HILLY 22, 1972 AND HILLY 24, 1971 (29th WEEK) — Continued

| | TETANUS | TB | 7711 41 | REMIA | | HOID | | S FEVER BORNE | VENEREA | L DISEASES | | IES IN |
|--------------------------------|----------|-----------------|---------|--------------|----------|--------------|--------------|------------------|----------------|---------------------------|--------|--------|
| AREA | IEIANUS | (New Active) | TOLA | KEMIA | FE | ÆR | | potted fever) | GONOR- RHEA | SYPHILIS (Pri. & Sec.) | ANI | MALS |
| | 1972 | 1972 | 1972 | Cum. 1972 | 1972 | Cum. 1972 | 1972 | Cum. 1972 | 1972 | 1972 | 1972 | - 19 |
| UNITED STATES | 3 | 622 | 5 | 74 | 10 | 172 | 31 | 244 | 16,275 | 522 | 79 | 2,4 |
| EW ENGLAND | -0 | 24 1 | _ | _ | 3 | 10 | 1 5 | 1 | 569 8 | 8 - | - | 1 |
| Maine | | <u>'</u> | | _ | | 1 | _ | | 16 | | - 1 | 1 4 29 |
| New Hampshire | _ | 1 | _ | _ | - | _ | _ | _ | 12 | - | - | - 100 |
| Massachusetts | - | 17 | = 1/ | - | 3 | 7 | - | | 390 | 3 | - | |
| Rhode Island | - | 2 | - | - | - | A = | - | - | 41 | 1 | - | |
| Connecticut | | 3 | _ | - | - | 2 | _ | - | 102 | 4 | - | |
| DDIF AMI ANIMA | | 66 | _ | 1 | 1 | 32 | _ | 15 | 2,356 | 84 | 2 | - 5 |
| DDLE ATLANTIC Upstate New York | | 16 | | | | 11 | | 4 | 757 | 64 | 2 | |
| New York City | | 34 | | _ | | 17 | _ | i | 1,300 | 59 | _ | |
| New Jersey | _ | 16 | _ | 1 | _ | 3 | _ | 6 | 299 | 18 | _ | |
| Pennsylvania | | | | _ | | 1 | | 4 | | | | |
| | | (3 | | | | | | | | | | 1 |
| ST NORTH CENTRAL | - | 67 | - | 1 | 1 | 14 | V - | 14 | 1,614 | 33 | 6 | 2 |
| Ohio | _ | 12 16 | _ | 1 _ | 1 5 | 5 | 1 1 2 | 14 | 625 250 | 4 4 | _ 1 | - |
| Indiana | 1 5 | 19 | | _ | 1 | 3 | 1 - | | 142 | 1 " <u>"</u> | 1 | |
| Illinois | | 17 | _ | | _ | 5 | 1 - | _ | 456 | 25 | _ | |
| Wisconsin | | 3 | _ | _ | _ | 1 | _ | - | 141 | | 4 | |
| | | | | | | | | | | | | |
| ST NORTH CENTRAL | - 1 | 42 | 1 | 17 | _ | 4 | 2 | 10 | 831 | 5 | 29 | 1 |
| Minnesota | - | 4 | _ | - | - ' | _ | - | - | 205 | 3 | 6 | |
| Iowa | - | 2 | - | - | | | 1 7 | 1 | 161 | 1 | 6 | 2 |
| Missouri | G = | 31 | | 14 | - | 3 | 1 | 6 | 210 | 2 | 4 | |
| North Dakota | _ | 1 | _ | 1 | == | _ | 1 | 2 | 18 | | 1 | 10 100 |
| South Dakota | | 3 | _ | l i | _ | | '- | | 31 91 | - | - | |
| Nebraska | _ | 1 | 1 | ì | | 1 | | 1 | 115 | | 11 | |
| Ralisas | | | | | | | | | | | | |
| UTH ATLANTIC | 1 | 123 | 1 | 9 | | 21 | 19 | 1 40 | 4,556 | 174 | 5 | 2 |
| Delaware | - | 1 | | - | | - | - | 1 | 29 | 2 | - | |
| Maryland | - | 14 | 1 | 1_ | - | 5 | 2 | 25 | 332 | 5 | _ | |
| District of Columbia | | 10 | _ | _ | - | 2 | | _ | 280 | 15 | - | - |
| Virginia | | 19 5 | _ | 6 | 1 2 - | 7 | 2 | 32 2 | 448 | 44 | 1 2 | |
| West Virginia | 112 | 27 | | _ | | | 10 | 56 | 436 | 6 | 1 | 110 |
| North Carolina * |]] | | | 1 - | | | 1 | 12 | 1,434 | 28 | | |
| Georgia | _ | 14 | | 1 | _ | 1, 1 | 3 | 12 | 857 | 23 | 1 | |
| Florida | 1 | 33 | | 1 | - | . 5 | - | | 700 | 51 | _ | |
| | | | | | | | 1 | | | 1 1 | | |
| ST SOUTH CENTRAL | - | 78 | 2 | 5 | - | 17 | 7 | 36 | 1,098 | 33 | 11 | 4 |
| Kentucky | - | 5 | _ | | - | 4 | - | 1 | 165 | 11 | 8 | |
| Tennessee | - 1 | 22 | 2 | 4 | - | 6 | 4 | 27 | 510 | 6 | 3 | |
| Alabama | _ | 38 13 | _ | 1 _ | _ | 2 5 | 1 2 | 3 5 | 52 371 | 7 9 | _ | |
| Mississippi | | 13 | | 1 - | | | | | "'' | ' | _ | |
| EST SOUTH CENTRAL | 1 | 94 | 1 | 34 | 1 | 24 | 3 | 26 | 1,806 | 77 | 16 | 1 |
| Arkansas | | 6 | | 20 | 1 | 9 | 1 m - | 3 | 99 | 3 | 1 | |
| Louisiana * | - | 17 | - | 2 | | 4 | | - | 313 | 23 | - | |
| Oklahoma | - | 11 | 1-/ | 8 | - | 1 | 2 | 20 | 208 | 4 | 5 | |
| Texas | 1 | 60 | 1 | 4 | | 10 | 1 | 3 | 1,186 | 47 | 10 | |
| TRITAIN PA 1 G | | 22 | 2 4 | | | | [3] | , , | 642 | 20 | | 11.77 |
| OUNTAIN | 1 - | 33 1 | | 5 _ | | 5 | | 3 | 643 | 20 | _ | 1,000 |
| Montana | | 1 | 1 | [| | | | 2 | 45 | <u>-</u> | _ | - 1 |
| Wyoming | _ | 1 | | L I I | | _ | _ | | 24 | 3 | _ | 1100 |
| Colorado * | - | 8 | _ | 1 | 111 | _ | - | _ | 189 | | _ | |
| New Mexico | 1-0.1 | 6 | - | - | - | 1 | - | _ | 132 | 1 1 | - | |
| Arizona * | | 17 | - | 2 | 111 - 11 | 2 | _ | - | 107 | 7 | - | |
| Utah | 1 | - | | 2 | -915 | 2 | j: - | | 49 | - | - | |
| Nevada 🏞 | \ \ - | _ | | 9 | - | - | D2 - | - | 57 | 8 | - | |
| CIEIC | 4.0 | 95 | | 2 | 4 | 45 | | | 2,802 | 88 | 10 | 33 |
| CIFIC | <u> </u> | 95 5 | 7711 | | | 2 | I | 1 | 196 | 6 | 10 | 1-6 |
| Washington | | 7 | 7 2 | 1 | | | 11 2 | | 228 | 4 | | ICI |
| Oregon | _ 100 | 80 | 2 | 1 2 | 4 | 40 | 8 - | - 1 | 2,301 | 69 | 10 | 4 = 1 |
| Alaska | - | - | 1-E | 1 | 1 4 | - | - | - | 29 | 9 | _ | |
| Hawaii | - | 3 | - | - | | 3 | | - | 48 | : | | |
| | | + | | | | | | | - , - | | | |
| | 1 | | 9 | _ | | _ | | 1-8 | _ | 1 - 1 | | |
| am | 4.75 | 7 | 1-6 | 1 | 1 27 | 5 | | | 35 | 7 | 2 | |
| | | , | | | | 1 | | 1 | 6 | 2 | _ | |

*Delayed reports: Tuberculosis: N.C. delete 1 Tularemis: Colo. delete 1 Gonorrhea: La. delete 2, Nev. 191

Syphilis: La. delete 1, Colo. delete 1, Nev. 5 Rabies in animals: Ariz. 1

Week No.

TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDING JULY 22, 1972

(By place of occurrence and week of filing certificate. Excludes fetal deaths)

| | 11.00 | All Causes | | Pneumonia | | | All Causes | | Pneumonia |
|------------------------|-------|------------|------------------------------|-----------|--|----------------------|---|----------------------------|------------|
| Area . | | | and Influenza All Ages | Area | All Ages | 65 years and over | Under 1 year | and Influent All Age | |
| | | | | | SOUTH ATLANTIC | 1,161 | 608 | 43 | 4 |
| EW ENGLAND | 737 | 456 | 27 | 38 | Atlanta. Ga. | 154 | 66 | 8 | |
| Boston, Mass. | 223 | 131 | 12 | 17 | Baltimore, Md. | 222 | 121 | 7 | |
| Bridgeport, Conn. | 49 | 32 | 3 | 2 | Charlotte, N. C. | 53 | 30 | 2 | |
| Cambridge, Mass. | 32 | 26 | 2 | 4 | | 102 | 52 | 5 | |
| | 29 | 17 | ī | - | Jacksonville, Fla. | 93 | 49 | 3 | |
| Harford C | 50 | 28 | i | | Miami, Fla. | 56 | 32 | 3 | |
| Hartford, Conn. | | 19 | | 1 | Norfolk, Va. | | | 1 | |
| Lowell, Mass. | 30 | | | | Richmond, Va. | 72 | 40 | | |
| Lynn, Mass. | 24 | 18 | - | 2 | Savannah, Ga. | 57 | 24 | 2 | |
| New Bedford, Mass. | 36 | 22 | 7 | 1 | St. Petersburg, Fla | 87 | 66 | 1 | |
| New Haven, Conn. | 43 | 29 | 4 | - | Tampa, Fla | 70 | 35 | 3 | |
| Providence, R. I. | 71 | 38 | 2 | 3 | Washington, D. C. | 136 | 61 | 7 | |
| Somerville, Mass. | 5 | 2 | _ | 1 | Wilmington, Del | 59 | 32 | 1 | |
| Springfield, Mass. | 51 | 32 | - | 6 | | | | | H - J |
| Waterbury, Conn. | 42 | 27 | - | - | EAST SOUTH CENTRAL | 659 | 340 | 24 | 3 |
| Worcester, Mass. | 52 | 35 | 2 | 1 | Birmingham, Ala. | 123 | 55 | - | |
| | | | | | Chattanooga, Tenn. | 45 | 21 | 3 | |
| DLE ATLANTIC | 3,381 | 2,053 | 108 | 122 | Knoxville, Tenn. | 41 | 25 | 1 | |
| Moany, N. Y. | 61 | 38 | 5 | | Louisville, Ky. | 104 | 63 | 3 | |
| ulentown, Pa. | 29 | 22 | - | 6 | Memphis, Tenn. | 141 | 79 | 6 | |
| luffalo, N. Y. | 134 | 76 | 5 | 6 | Mobile, Ala. | 60 | 33 | 4 | |
| amden, N. J. | 43 | 30 | 1 | 3 | Montgomery, Ala. | 37 | 18 | 1 | |
| lizabeth, N. J. | 37 | 26 | _ | 1 | Nashville, Tenn. | 108 | 46 | 6 | |
| rie, Pa. | 38 | 16 | 4 | - | raganyme, I Chil. | 100 | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | U | |
| ersey City, N. J. | 85 | 57 | 4 | 5 | WEST SOUTH CENTRAL | 1,135 | 587 | 60 | |
| ewark, N. J. | | 1 | 2 | 2 | | | | | |
| lew V-t. Cr. N. W. t. | 61 | 25 | 1 | 1 | Austin, Tex. | 42 | 25 | 2 | |
| ew York City, N. Y. ** | 1,704 | 1,041 | 48 | 59 | Baton Rouge, La. | 40 | 26 | - | |
| aterson, N. J. | 57 | 33 | 3 | 4 | Corpus Christi, Tex | 32 | 17 | 2 | |
| hiladelphia, Pa. | 494 | 279 | 16 | 5 | Dallas, Tex. | 145 | 70 | 11 | 71.0 |
| ttsburgh, Pa | 156 | 93 | 6 | 9 | El Paso, Tex. | 52 | 29 | 3 | 10.00 |
| eading, Pa. | 45 | 32 | - | 1 | Fort Worth, Tex. | 74 | 40 | 6 | |
| Ochester, N. Y. | 131 | 90 | 2 | 9 | Houston, Tex. | 215 | 102 | 15 | |
| chenectady, N. Y. | 33 | 19 | 4 | 2 | Little Rock, Ark. | 47 | 25 | 2 | |
| cranton, Pa | 61 | 43 | 1 | 3 | New Orleans, La | 140 | 74 | 2 | |
| yracuse, N. Y | 92 | 53 | i 5 | 1 | Oklahoma City, Okla.** | 81 | 45 | 4 | |
| renton, N. J | 50 | 31 | 1 | 2 | San Antonio, Tex. | 134 | 63 | 9 | |
| rica, N. Y. | 26 | 18 | | 1 | Shreveport, La. | 80 | 36 | 4 | |
| onkers, N. Y. | 44 | 31 | 1 | 3 | Tulsa, Okla. | 53 | 35 | - | ing. |
| T NORTH CENTRAL | 2,699 | 1,544 | 114 | 85 | MOUNTAIN | 484 | 268 | 32 | |
| kron, Ohio | 62 | 42 | 2 | - | Albuquerque, N. Mex. | 50 | 19 | 4 | |
| anton, Ohio | 36 | 25 | 2 | _ | Colorado Springs, Colo. | 33 | 18 | 2 | |
| hicago, III. | 711 | 388 | 33 | 17 | | 136 | 76 | 13 | |
| incinnati, Ohio | 186 | 102 | 3 | 5 | Denver, Colo. | 16 | 10 | | |
| leveland, Ohio | 208 | 119 | 9 | 1 | Ogden, Utah | 92 | 58 | 5 | |
| olumbus, Ohio | 145 | 87 | و ا | 6 | Phoenix, Ariz. | 23 | 13 | | |
| ayton, Ohio | | | 2 | 3 | Pueblo, Colo. | | | 10 7 | |
| etroit Miss | 101 | 56 | | 13 | Salt Lake City, Utah | 62 | 40 | 4 | |
| etroit, Mich. | 363 | 199 | 15 | 1 | Tucson, Ariz. | 72 | 34 | 4 | -40 |
| vansville, Ind. | 41 | 27 | 1 | 3 | | | | | |
| lint, Mich.** | 54 | 29 | 4 | 2 | PACIFIC | 1,736 | 1,055 | 56 | |
| ort Wayne, Ind. | 49 | 33 | 2 | 2 | Berkeley, Calif | 20 | 13 | - | .00 |
| ary, Ind. | 28 | 18 | = / | 1 | Fresno, Calif. | 52 | 28 | 2 | 2.9 |
| rand Rapids, Mich | 63 | 32 | 5 | 7 | Glendale, Calif | 34 | 19 | - | |
| IQIanapolis Ind | 166 | 96 | 10 | 2 | Honolulu, Hawaii | 47 | 28 | 2 | |
| adison Wis | 44 | 24 | 3 | 5 | Long Beach, Calif | 115 | 61 | 2 | |
| UWaukee Wis | 129 | 74 | 4 | 2 | Los Angeles, Calif | 568 | 352 | 21 | |
| ona, III. | 45 | 24 | 6 | 2 | Oakland, Calif. | 97 | 64 | 8 | |
| ockford, Ill | 30 | 16 | 2 | 3 | Pasadena, Calif. | 29 | 21 | 2 | |
| outh Bend, Ind | 56 | 32 | 2 | 3 | Portland, Oreg. | 122 | 75 | 6 | |
| Oledo, Ohio | 124 | 85 | - | 6 | Sacramento, Calif. | 76 | 43 | 4 | |
| oungstown, Ohio | 58 | 36 | - | 2 | San Diego, Calif. | 95 | 55 | 2 | |
| | 50 | 1 - | | - | San Francisco, Calif. | 190 | 108 | 2 | |
| T NORTH CENTRAL | 796 | 497 | 41 | 21 | San Francisco, Calif. | 60 | 42 | _ | |
| es Moines, Iowa | 55 | 36 | 2 | 4 | | 136 | 88 | 3 | 110 |
| uluth, Minn. | 10 | 5 | | - | Seattle, Wash | | | 1 | |
| anese City, N | | 25 | 3 | 2 | Spokane, Wash | 60 | 36 | 1 | - |
| ansas City, Kans. | 42 | | | | Tacoma, Wash | 35 | 22 | | |
| ansas City, Mo. | 126 | 91 | 6 | 7 | | 12 700 | 7 400 | 505 | 4 |
| incoln, Nebr. | 24 | 18 | - | 4 | Total | 12,788 | 7,408 | 505 | - 4 |
| "Incapolic Minn | 97 | 54 | 6 | . 1 | Provided No. 1 | 12,302 | 6,919 | 572 | 4 |
| mana, Nehr | 81 | 48 | 7 | 1 | Expected Number | 12,302 | 0,519 | J, 2 | |
| · Louis. Mo | 221 | 135 | 7 | 8 | Cumulative Total | | | | |
| 1. Paul Minn | 73 | 47 | 5 | - | (includes reported corrections | 373,971 | 218,273 | 14,687 | 15,5 |
| Vichita, Kans. | 67 | 38 | 5 | 1- | for previous weeks) | | | | Ι., |
| s Vegas, Nev.* | 16 | 10 | - | 1 | *Mortality data are being collected table, however, for statistical rease the total, expected number, or c | ons, these data | will be listed | only and not i | included i |

Estimate based on average percent of divisional total

CARBON MONOXIDE POISONING — Continued with no sequelae.

On the evening of April 26, the couple had eaten commercially-canned beef stew, heated and mixed with commercially-canned corn, green beans, and tomato sauce. The diagnosis of botulism was initially considered; however, laboratory tests of the remaining beef stew and corn and of serum from the deceased were negative for botulism.

The husband had been under treatment for heart disease but had no other known illnesses. Postmortem examination revealed cutaneous discoloration and unusually pink body tissues. A markedly narrowed coronary artery and an area of apparently fresh hemorrhage were noted. A heart blood sample was then tested for carbon monoxide (CO) by the CV recording spectrophotometric method. A level of 65% was found, indicating that CO poisoning was a contributing cause of death. The stress of hypoxia may have induced a myocardial infarction.

Epidemiologic investigation revealed that the couple had previously used the cabin only in the summer and had either slept outside or with the doors and windows open for ventilation. On this occasion, however, the doors and windows were kept closed because of cold weather. A lantern, an old oil heater, an unvented gas refrigerator, and a well-vented gas water heater were in the cabin. The water heater was empty and had not been used. The other appliances were started, with the doors and windows closed, to simulate conditions of April 26. After the refrigerator was turned on, an odor of gas was immediately noticed. After 30 minutes, the CO level in the air was 1.000 ppm, and 15 minutes later, the level was

between 1,200 and 1,300 ppm. The threshold limit value for human toxicity is 50 ppm. Steps to remedy the hazard were subsequently taken.

(Reported by Donald J. Rosenthal, M.D., private physician, San Carlos, California; Donald W. Jones, M.D., pathologist, Placerville, California; Ronald Duncan, R.S., Roy Crosby, Laboratory Director, Dalton Engelberg, M.D., Director, El Dorado County Health Department; James M. Bodie, M.D., Medical Epidemiologist, F. Rumney, Laboratory Director, San Mateo County Health Department; Richard W. Emmons, M.D., Medical Epidemiologist, Viral and Rickettsial Disease Laboratory and Bureau of Communicable Disease Control, T. Midura, Ph.D., Research Microbiologist, and Ronald Wood, Ph.D., Chief, Microbial Diseases Laboratory, California State Department of Public Health.)

ERRATA

Vol. 21, No. 28, p. 239

In the article "Gastroenteritis Suspected as Cholera – Curação," correct the second sentence in paragraph 5 to read: "These colonies produced gas on TSI slants and gave a negative string test (2, 3)."

ACIP Recommendations, Supplement to MMWR, Vol. 21, No. 25

In the section "Immune Serum Globulin for Protection Against Viral Hepatitis," page 9, correct the dose volume in the footnote as indicated in bold print: "*Some agencies have used up to 0.05 ml/lb each 4-6 months rather than the 5 ml for adults recommended here."

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Director, Center for Disease Control Director, Epidemiology Program, CDC Editor, MMWR

David J. Sencer, M.D. Philip S. Brachman, M.D. Michael B. Gregg, M.D.

The data in this report are provisional, based on weekly telegraphs to CDC by state health departments. The reporting week concludes at close of business on Friday; compiled data on a national basis are officially released to the public on the succeeding Friday.

In addition to the established procedures for reporting morbidity and mortality, the editor welcomes accounts of interesting outbreaks or case investigation: of current interest to health officials.

Address all correspondence to:

Center for Disease Control Attn: Editor Morbidity and Mortality Weekly Report Atlanta, Georgia 30333

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U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

HEALTH SERVICES AND MENTAL HEALTH ADMINISTRATION CENTER FOR DISEASE CONTROL ATLANTA, GEORGIA 30333

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